GETSOV, G., avtolyubitel' (Moskva)

Replacing a damaged tube. Za rul. 18 no.2:21 F '60.

(MIRA 13:6)

GETSOV, G., avtolyubitel'

If you get tired stop on the shoulder of the road. Za bezop.

(MIRA 15:7)

dvizh. 4 no.5:10 My '62.

(Automobiles--Touring)

STAMOV-VITKOVSKII, A. (Moskva); MOSHCHAKOV, V. (Moskva); GETSOV, G. (Moskva)

BYUNOSOV, Yu. (Tyumen'); GOMZOV, V. (Orenburg); MAKHOTIN, A. (Moskva)

KHAIMOV, B.; MAL'ISEV, N. (Orel); MAKSIMOV, D. (Leningrad);

MOKROBORODOV, V. (Sverdlovsk)

Advice from the experienced. Za rul. 19 no.12:18-20 D '61.

(MIRA 14:12)

1. Stantsiya Perlovskaya, Moskovskaya obl. (for Khaymov).

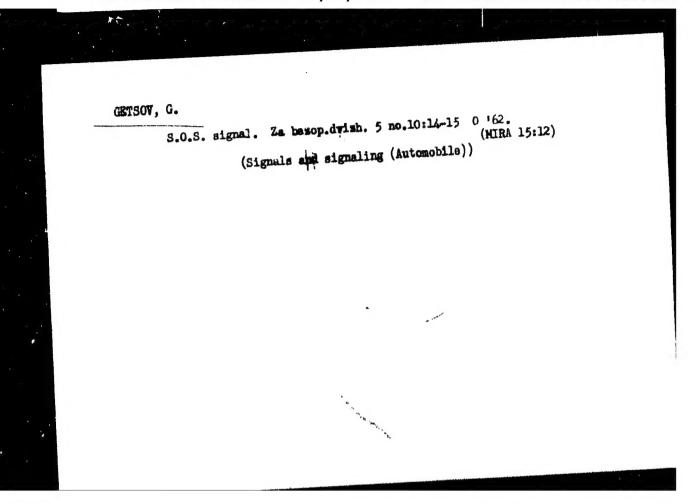
(Motor vehicles—Maintenance and repair)

GETSOV, G.

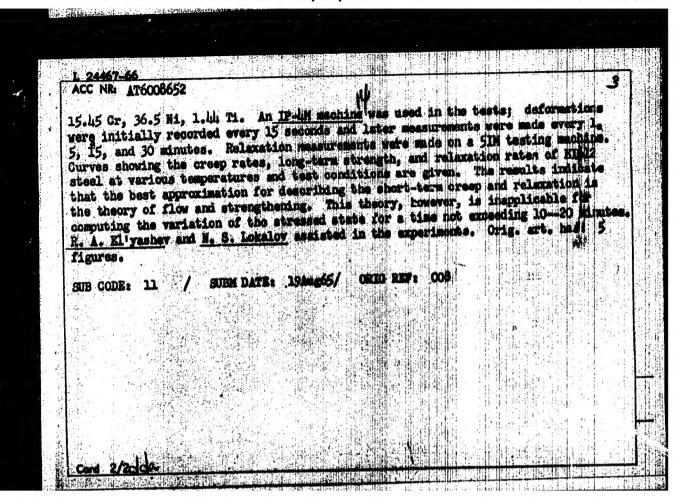
Is the spark plug operating? Za rul. 20 no.11:27 N '62.

(MIRA 15:11)

(Spark plugs—Testing)



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ACC NR ATOUNDS	/w/te			62 69
AUTHOR: Getsov, L. B. (Leningre				B+1
some a showt term aresp and rel	sization of heat.	isteri elleri		
SOURCE: Vsesoyushoye soveshohal prochnosti materialov i konstru tamperaturakh. Id. Termoprochimo				(Astrol)
strength of materials and const.	restion elements);	materially sove		
TOPIC TAGS: heat resistant mat strength, stress relaxation, c	erial, material def reep, steel/ BI61	ornation, lesi	effect, ulti	
ABSTRACT: The author conducted	disks. The work w	sure host der as undertaken		
purposes: a) to determine the	esses: b) to corre	late the curve	S OF SINE ALL	n and in
and ultimate strength; C	) to correlate expe	Lineseri carve	were conducte	d with
computations according to variantifications according to varia	content (%) of	POR OF GIRL W		

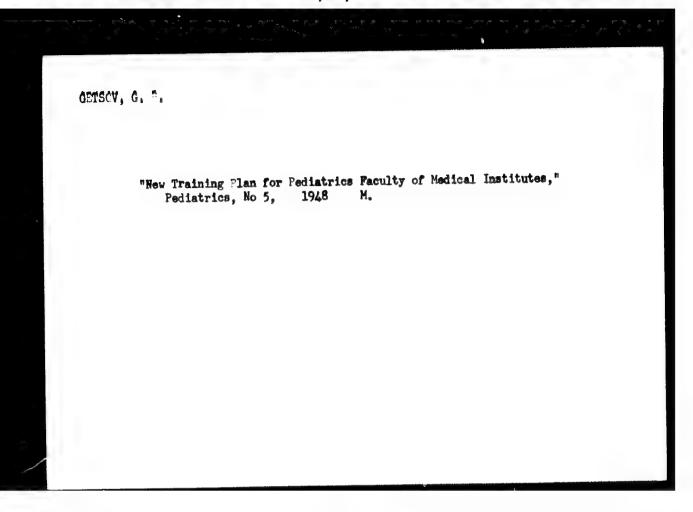


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ACC NR. A16008653					1/6
AUTHOR: Cetsov. L	. B. (Leningrai)	<b>V</b>			7/5 3/1
ORG: none					BH
TITLE: A comparat	ive study of heat	resistance of t	wo grades of	quaterite ste	<b>*</b> *.,
SOURCE: Vacsoyusi	eye seveshelishiye	po von osa ata	ticheskoy i	dinamishaakw	NV.
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Naukova dumka, 19	1618 and constructs 15, 98-102	COU &T#M#UM#1) .			
EI612 austenite s	resistant material teel, BI481 sustan	TAG BESST			
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	ed in Table 1. The at strength and du				
correlation analy	sis wherein: A) t	here is determined to	ailures b)	bere is determ	nined the
measure of disper	And but to be and and	4 Smooth an	ecimens of e	ch steel were	soposed

ACC NR AT60086	53			Tal	10 1			<del> - </del>			Ī
	Steel	G	81	44		,	Q.	, 201	<b>•</b>		
4	KÎ 612 KI 481	0,07 0,1 0,36 0,4	0,17 0,31 0,30	0,3[- 1,6 8,6- 9,0	0,005- 0,01 0,005- 0,015	0.01- 0.019 0.02-	14.2- 15,26 12.3- 13.02	34,58- 36,35 7,88- 18,02			
	Steel				Mo	v	369	14,			
	ET 612	2,82-3		-1.7 -0.09 1	0-0,77 ,18-1,87	1,33— 1,42	0,31 0,36	0,049-			•
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GETSOV, G. B.

Extermination of flies 2. izd. Moskva Medgiz, 1940. 14 p. (54-46762)
RA641.F6G4 1940



METSOV, G. B.

"Large-Scale Sanitation Instruction Work for Students," Sov. Med.,
No. 5, 1949 Prof. Moscow, c1949

GETSOV, G.B

#### GETSOV, G. B.

Hedical practice of students of pediatrics taking the six-year course. Pediatriia, Noskva No. 6, Nov.-Dec. 50. p. 51-7

1. Moscow.

CLML 20, 3, March 1951

GETSOV, G.B.

[Practice in industry of students in medical institutes giving six years of instruction] Proisvodstvennaia praktika studentov meditsinskikh institutev pri shesti godakh obucheniia. Moskva, Medgis, 1952. 230 p. (MLRA 7:8)

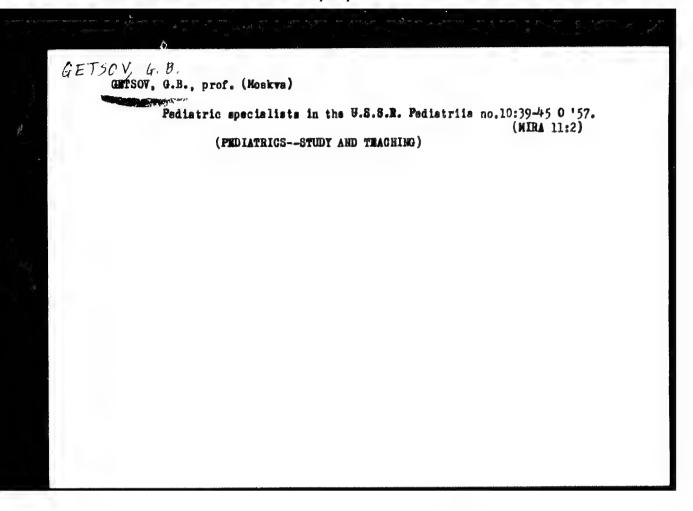
(Medicine--Study and teaching)

GETSEV G.B

GaTSC7. G.B., professor

Work practice in conducting teneday courses for the advanced training of physicians in medical institutes. Ident. Ros. Fed. 1 no. 3:31-33 Mr 167. (MEA 119)

1. Zaveduvnehchiy kurson okhranv materinatva, mledenehestve i detatva 2-no Moskovskogo meditainakogo inatituta. (MANCINE--STUDY AND TERTHIN)



AUTHOR:

S 12 1 1

Getsov, G.B., Professor

3-10-22/30

TITLE:

10-Day Courses for the Perfecting of Physicians (Dekadniki

usovershenstvovaniya vrachey)

PERIODICAL:

Vestnik Vysshey Shkoly, 1957, # 10, pp 70-71 (USSR)

ABSTRACT:

One or two districts where students get practical work are attached to every medical institute. The author describes the ten-day courses of the 2nd Moscow Institute of Medicine in the Moscow, Kalinin and Kaluga districts taking place once or twice a year. On the whole 8 of these courses have been given from 1952 - 1957 during the winter holidays or in June. They are intended for physicians of medium or high qualifi-

cation, being too brief for newer physicians.

The courses begin on the 25th January and terminate on the 4th February. The working day comprises 3 hours of special work in clinics and two lectures of 2 hours each. Each ten-day course is terminated by a conference of physicians, professors and teachers. The 8 courses were attended by 972 participants, the highest number in one course was 205. Of 414 lectures, 228 were read by professors. Between 12 - 19 clinical chairs of the institute took part in

Card 1/2

the practical-seminar section.

10-Day Courses for the Perfecting of Physicians

3-10-22/30

Such ten-day courses can be organized in every medical vuz. They may also be created at all sites where students perform practical training (factories, sovkhozes MTS, hospitals, schools, etc.).

ASSOCIATION: Second Moscow Medical Institute imeni N.I. Pirogov (2-y Moskovskiy meditsinskiy institut imeni N.I. Pirogova)

AVAILABLE:

Library of Congress

Card 2/2

GETSOV, G.B., prof.

Hospital practice for atudents of medical institutes and prospects for its development. Sov.med. 22 no.1:135-143 Ja '58.

(MIRA 11:4)

1. Is II Moskovskogo meditsinskogo instituta imeni N.I.

Pirogova.

(IMDUSTRIAL HYGINIR

industrial practice for med. atudents in Russia (Rus))

(EDUGATION, MEDICAL same (Rus))

GETSOV, G.B., prof.

Ten-day postgraduate medical training for physicisms working at bases for industrial practice for medical institute etudents. Sovet. med. 27 no.9:119-121 3163 (MIRA 17:22)

1. Iz II Moskovskogo meditsinskogo instituta.

GETSOV, I., kand.tekhn.nauk

Determining the optimum volume of ship repairs for a ship repair enterprise. Rech. transp. 21 no.6:25-28 Je '62. (MIRA 15:7) (Ships-Maintenance and repair)

GETEOV, I., dotsent, kandidat tekhnicheskikh nauk.

Shipbuilding and ship repair enterprises during the fifth five-year plan.

Mor.i rech. flot 13 no.1:15-18 My \*53.

(MERA 6:10)

(Shipbuilding)

GETSOV, I.Ye., dotsent, kandidat tekhnioheskikh nauk,

Galoulating the production capacity of a ship repair yard. Rech.transp. 13
(NIBA 6:11)
(Shipyards)

GETSOV, Iosif Yefremovich; CHEREPNIN, V.Ye., redaktor; TEFINOV, M.I., retsensent; KRASNAYA, A.K., tekhnicheskiy redaktor

[Principles of planning shiprepair and shipbuilding enterprises]
Osnovy proektirovaniia sudoremontnykh i sudostroitel'nykh predpriiatii. Moskva, Izd-vo "Rechnoi transport," 1955. 471 p.
(Shipyards) (MLRA 8:8)

Power installations of the near future for river craft. Sech. transp.
17 no.1:21-24,25 Ja '58.

(Ship propulsion)

CETSOV, losif Vefremovich, dotsent, kand.tekhn.nauk; GUENT, M.N., retsensent; CHERREBIN, V.Ve., retsensent; CHERROVA, M.L., red. VIBOGRADOVA, M.M., red.isd-wa; BOBROVA, V.A., tekhn.red.

[The design of ship-repair and shipbuilding enterprises]

Procktirovanie sudoremontayth i sudostroitel sykh predpristii.

Moskva, Isd-vo "Rechnoi transport," 1959. 335 p.

(MIRA 13.6)

(Shippards) (Shipbuilding)

CEL'FAND, Aleksandr Yevseyevich, insh.: CETSOV, Ionif Yeframovich, kand.
tekhn. nauk; CHERNOV, M.I., retsenzent; DOLGOLENKO, P.V., retsenzent; TYUTCHEV, N.A., red.; VITASHKINA, S.A., red. izd-va; YERMAKO-VA, T.T., tekhn. red.

[Precision and finish of the machining of parts in repairing ship machinery] Tochnost' i chistota obrabotki detalei pri remonte sudovykh mekhanizmov. Moskva, Izd-vo "Rechmoi transport," 1961. 151 p. (MIRA 14:12)

(Marine engines—Maintenance and repair)

GETSOV, I., prof., doktor tekhn.nauk

Limits to cooperation in ship repairing enterprises.

Mor.flot 25 no.6:34-35 Jl \*65.

(MIRA 19:1)

GETSON K

BULGARIACultivated Plants - Grains.

1.4

Abs Jour

: '...' Zhur - Biol., No 9, 1,58, 39175

Aut.or

: Sharkov, T.K., Gyrbuchev, I., Getsov, Kal

Inst

:

Title

: Contamporary Problems Relating to the Growth of PAP or no

Varieties of Seeds.

Orig Pub

: Selskestep, misyl, 1996, 1, No 11, 676-681.

Abstract

: This paper contains a brief statement on the organization of seed growing in the USSR and the problems of bulgarian seed growing and conserving the purity of different waris-

cties of grain crops.

Card 1/1

GUNCHEV, Zdravko St.: 505UNKEV -- HARAIVANOV:, Markin: SUMITROU -- SUMERIVA,
Tamera: GETSOV, Miril Iv.

Economic effectiveness of mineral fertilizers. Godishniz biol 56
no.3:335-414 161-162 [publ. 163].

Pair Significant - Deformation - Deformation - Deformation of parts during the mai treatment

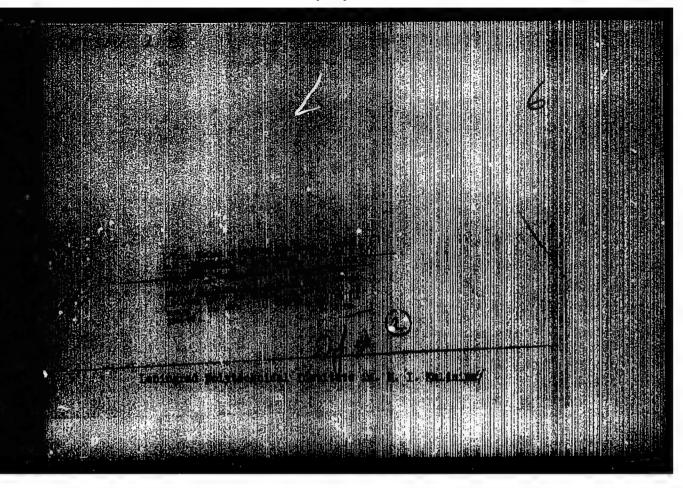
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Institution:

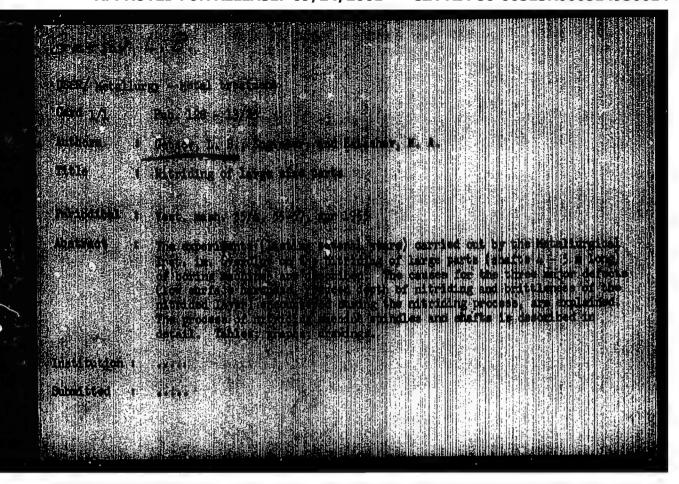
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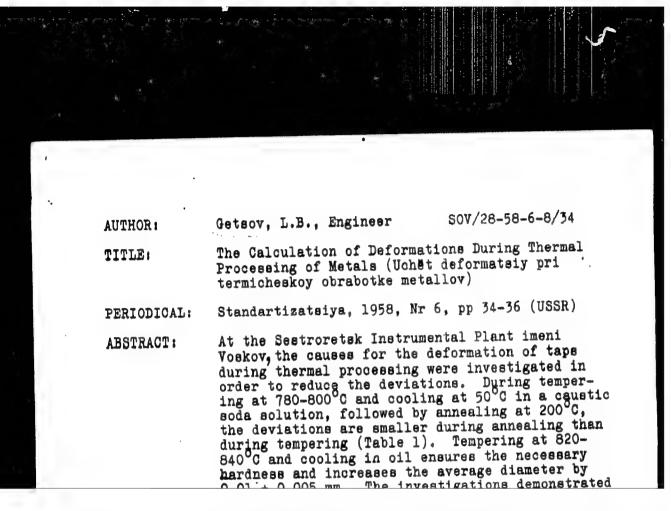
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SOV/28-58-6-8/34

The Calculation of Deformations During Thermal Processing of Metals

and annealing very exactly, by an equal heating and cooling of the processed parts, etc.

There are 2 graphs and 3 tables.

Sestroretskiy instrumental'nyy zavod imeni Voskova (Sestroretsk Instrumental Plant imeni ASSOCIATION:

Voskov)

Card 2/2

AUTHOR: Getsov, L. B. SCV/32-24-10-31/70

TITLE: Method of Testing Refractories at Variable Temperatures

and Stresses (Metodika ispytaniy zharostoykikh materialov prinestatsionarnykh temperaturakh i napryazheniyakh) Survey cf

Foreign Literature (Obser sarubeshaoy literatury)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 10, pp 1247-1251 (USSR)

ABSTRACT: Since not all temperatures and stresses occurring in the use of

the corresponding machine parts when testing metals under ... cyclic stresses can be realized at the same time, the in-

vestigations were carried cut in simplified cycles. The individual types of cycles are given in a graphical representation and are discussed as well. The rectangular temperature cycle (Refs 1-4) and the tests according to Smith and Houston (Smit and Gauston) (Ref 4) are mentioned, as well as the triangular temperature cycle (Refs 1,2,4) and the sincidal cycle. Among the special temperature cycles the investigations by Miller (Ref 2), and

among the rectangular cycles (according to stress) the experiments by Simmons and Gross (Kross) (Ref 8) are mentioned. There are no

data in publications on the triangular and sinoidal cycles

Card 1/2 (according to stress). For the case of a simultaneous modification

SOV/32-24-10-31/70

Method of Investigating Refractories at Variable Temperatures and Stresses. Survey of Foreign Literature

of temperature and stress the experiments by Foley (Ref 9) are mentioned. The diagram of the apparatus used in the experiments by Guarniery (Gvarnieri) (Ref 5) are also given, as well as a comment divided into four sections dealing with the results obtained in the cyclic tests with respect to creeping and permanent strength. The papers by Robinson (Robinson) (Ref 16) and Miller (Ref 2) are mentioned in a neestion with these test results. Among the investigations on thermal fatigue the papers by Haytorne (Khaytorn) (Ref 17), Lardge (Lardih) (Ref 18), Hunter (Khunter) (Ref 19), Weisberg and Soldan (Vaysberg and Zoldan) (Ref 20) (at the Syuaren Power Plant), as well as those by Coffin and Wesley (Koffin and Tesley) (Ref 21) are mentioned. There are 3 figures and 21 references, O of snior is Soviet.

Card 2/2

GETSOV, L.B., red.; TAUBINA, M.G., red.; SOBGLEVA, Ye.M., tekhn.red.

[Heat-resistant alloys under changing temperatures and stresses]

Zharoprochnye splavy pri ismeniaiushchikhsia temperaturakh i
napriazheniiakh; sbornik statei. Moskva, Gos.energ.izd-vo, 1960.

288 p. (MIRA 13:12)

(Metals, Effect of temperature on)

1045, 1418 18.8100

86068 \$/180/60/000/005/009/033

E111/E135

AUTHORS: Getsov, L.B., and Taubina, M.G. (Leningrad)

TITLE: Heat Resistance of Austenitic Alloys with Cyclically

Changing Temperatures and Stresses

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh nauk, Metallurgiya i toplivo, 1960, No. 5, pp. 100-109

The present authors (Ref. 4) and others (e.g. Refs 1, 3) TEXT: have suggested evaluation of the length of service of parts under variable conditions on the basis of the additivity of deterioration of mechanical properties. They now discuss such relations, with special reference to cyclic temperature changes, and classify alloys according to the structural transformation they then undergo. They consider in detail regeneration of the properties of nickel base alloys with intermetallide compounds. Table 1 shows mechanical properties at 20 PC after various systems of heat treatment of type 34-607 (EI-607), EI-869 and EI-765 alloys. Corresponding microstructures are shown in Fig.1 for EI-765 and electron-micrographs in Fig.2 for EI-607. Reported experiments (Ref.7) with type EI-612 alloy were also repeated and these are

Card 1/3

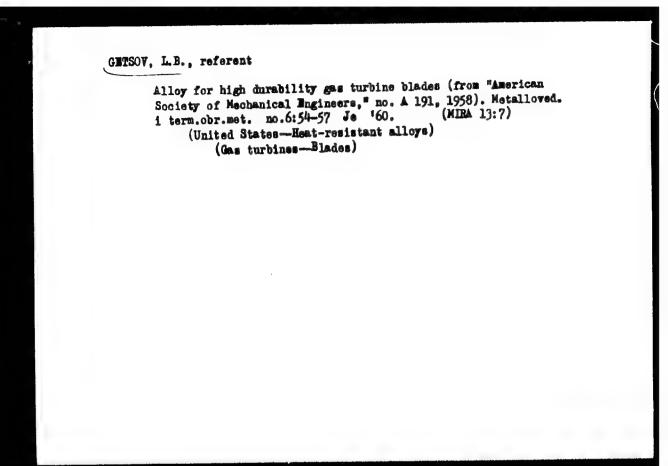
85068 \$/180/60/000/005/009,/033 E111/E135

Heat Resistance of Austenitic Alloys with Cyclically Changing Temperatures and Stresses

a great decrease in long-time strength and plasticity in fracture of austenitic alloys with a variable grain-size, recrystallized structure; the decrease is substantially greater than the errors obtained by using calculation methods. Creep rates under cyclic temperature changes with a period of up to 8 hours for alloys with intermetallide hardening agree well with calculated values; however, this does not apply to steel G Periodical unloading carried out with a different frequency in the testing process does not impair long-time strength. The phase analysis was carried out by N.Ye. Shlyepanova.

There are 3 figures, 4 tables and 8 references: 6 Soviet and 2 English.

Card 3/3



S/129/60/000/009/003/009 E193/B483

AUTHORS: Getsov. L.B., Engineer, Zhirnov, D.F., Terekhov, K.I. and Taubina, M.G., Candidates of Technical Sciences

TITLE: The Effect of Structure on the High Temperature
Properties of Alloys (

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov, 1960, No.9, pp.12-16

TEXT: Having determined experimentally the relationship between the degree of preliminary deformation and the grain size of recrystallized material, the authors studied the effect of grain size on the mechanical properties of steel EI481 and alloy EI437B. The mechanical tests were carried out both on laboratory test pieces with a predetermined grain size and on specimens cut from finely- and coarsely-crystalline portions of industrial forgings. The short-time strength of the steel EI481 at room and elevated temperatures was not affected by the variation of the grain size. However, the time-to-rupture of specimens with the grains varying in size between 0.5 and 5 mm, and determined at 550, 600 and 650 C, was considerably lower than that of specimens with uniform, finely-crystalline structure. U.T.S., elongation and reduction of area Card 1/2

S/129/60/000/009/003/009 B193/E483

The Effect of Structure on the High Temperature Properties of Alloys

of alloys EI437B at 20 and 700°C, decreased with increasing grain size but the creep properties of this alloy were not affected by this factor, probably because the maximum grain size obtained (2 mm) was not sufficiently large to produce measurable effects.

A.P.Ozerova, N.D.Shakhbazova, M.V.Malyutina and L.B.Aleksandrova participated in the experiments. There are 5 figures and 3 tables.

Card 2/2

AUTHORS: Getsov, L.B., Engineer and Taubin, M.G.,

Candidate of Technical Sciences

TITLE: Long-term Studies of Ageing and Creep Properties

of Steel 3N481 (E1481)

PERIODICAL: Energomashinostroyeniye, 1960 No. 4.

TEXT: Owing to its high strength at devated temperatures. combined with a relatively low price (owing to the low nickel content), steel E1481 containing 0.37% C, 8.4% Mn. 12.58% Cr. 8.11% Ni, 0.35% Nb, 1.3% Mo, 1.3% V, 0.023% S, 0.019% P and 0.67% Si has been extensively used as the material of gas turbine discs, particularly in engines designed to operate for a comparatively short time. The object of the present investigation was to determine to what extent this steel could be used in the construction of conventional turbines for service in the transport and power generating industries. The experiments were carried out on test pieces measuring Card 1/5

Long-term Studies of Ageing and Creep Properties of Steel EI481

90 x 90 mm, and on a forged turbine disc 580 mm in diameter. The preliminary heat treatment consisted of holding the test pieces at 1 145 °C for 1 h 45 min, followed by water-quenching and a two-stage tempering treatment (16 h at 670 °C + 16 h at 1 780 °C). In the first series of tests, the specimens were aged at 550, 600, 650 and 700 °C for periods ranging from 100 to 10 000 h, after which the U.T.S., 0.2% proof stress, reduction of area, elongation and impact strength of the alloy were measured at 20 and 650 °C. In the second stage of the investigation, the creep strength of steel E1481 was determined and the effect of the grain size and the presence of stress-risers (notches) on this property was investigated. The object of the third series of tests was to study the oxidation resistance of the alloy at 650 °C in moist air (17% H<sub>2</sub>0) and at 700 °C in air, containing 4.8% H<sub>2</sub>0 ·0.5% SO<sub>2</sub>. Card 2/5

Long-term Studies of Ageing and Creep Properties of Steel E1481

Finally, the effects of the preliminary heat treatment on the mechanical properties of the alloy were studied. The following conclusions were reached.

- 1) Neither the structure nor the properties of steel EI481 are significantly affected after 10 000 h service at temperatures \$\leq\$ 600 °C, 5 000 h service at 650 °C or 5 000 h service at 700 °C. The structure of the forged disc, subjected to this treatment, has been found to be homogeneous throughout, with the exception of typical of this steel, carbide agglomerates associated with the proneness of this steel to liquation.
- 2) The creep strength of the steel studied is characterized by the following figures: 10 000 h at 550 °C.
- 39 to 46 kg/mm<sup>2</sup>; 10 000 h at 600 °C 33 to 36 kg/mm<sup>2</sup>; 5 000 h at 650 °C 24.5 to 26 kg/mm<sup>2</sup>.

Card 3/5

Long-term Studies of Ageing and Creep Properties of Steel E1481

be assessed from the fact that the stress required to produce elongation of 1% after 10 h was 3½ kg/mm at 550 °C. 32 kg/mm at 600 °C and 19 kg/mm at 650 °C.

4) If the structure of steel EI481 is characterized by nonuniform grain size, its creep strength at 600 and 650 °C is about 10% lower than that of homogeneous material and its plasticity is also slightly less. However, neither the rate of creep nor the short-term mechanical properties of this steel at 20 and 650 °C are affected by this factor.

5) Steel EI481 is notch-sensitive, particularly when stressed in creep at 600 °C.

6) The resistance of this material to oxidation in moist air is quite satisfactory, the thickness of scale formed after 10 000 h at 650 °C being only 0.0064 mm. The rate of oxidation increases in the presence of S0, the thickness card 4/5

Long-term Studies of Ageing and Creep Properties of Steel E1481

of the scale formed under these conditions, after 3 000 h at 700 °C, being 0.067 mm. Rapid oxidation may occur at a point of contact of two components, where the flow of air is restricted; scale, several mm thick, has been found to form under these conditions after relatively short exposure. This effect is probably associated with the "vanadium corrosion".

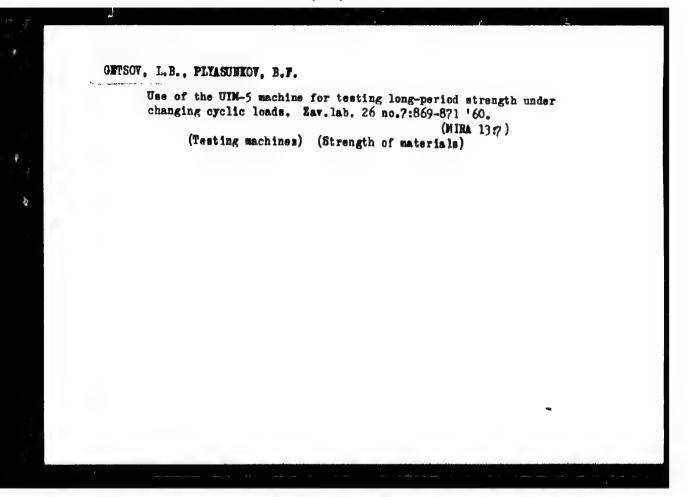
7) On the basis of the results of the present investigation, steel E1481 can be recommended as a construction material for turbines designed for 10 000 - 20 000 h service at 600 °C (this being the working temperature of the discs), or 3 000 - 5000h service at 650 °C. There are 6 figures. 4 tables and 1 Soviet reference.

Card 5/5

GETSOV, L.B., ingh.; TAUBINA, M.G., kand.tekhn.nauk

Heat resistance of austenite alloys under nonstationary conditions of testing. Teploenergetika 7 no.9:40-44 S \*60.

1. Zavod Ekonomayzer i TSentral'nyy kotloturbinnyy institut. (Steel alloys—Testing)



1716

5/096/62/000/005/003/009 E194/E454

10.1110

AUTHORS: Dinerman, A.P., Engineer, Getsov, L.B., Engineer

TITLE:

An investigation of the strength of gas turbine discs

under transient conditions

PERIODICAL: Teploenergetika, no.5, 1962, 38-43

A study made at TsNIITMASh of the influence of multiple TUKT: turbine starts on disc life of four discs made by the "Ekonomayzer" Works for a 600 kW turbine of steel grades 3M-612 (21-612) and 9W-481 (EI-481) is described. Properties and analysis of the metals are given. Stresses were calculated on a computer, rim stress calculations being made without allowance for Conditions were: speed 12000 rpm, stress concentrations. frequent and rapid starts (1500 to 3000), calculated minimum temperature drop in the disc 300°C, disc rim temperature at 100% load = 520°C and at 125% load = 570°C. Test conditions Test conditions were chosen to suit two opposite assumptions, namely (1) the intensity of disc cooling ensures the same temperature drop immediately after starting and during steady running and (2) after starting the temperature drop in the disc is gradually reduced to a level Card 1/3

An investigation of the strength ...

S/096/62/000/005/003/009 E194/E454

corresponding to a steady state condition. The main objects were to compare the life and performance of the discs made of the two kinds of steel, to obtain an idea of the role of stress concentrators and to determine whether the disc operating conditions are safe if there are stress concentrations in the rim. Detailed test results are All discs were tested to failure. The disc life is not reduced given and they show the following. when the rim stress concentrations are increased. Discs of steel EI-481 were stronger than those of EI-612 under the stated test During the tests the discs of steel EI-481 were somewhat strained and those of steel EI-612 were not. originated at places of highest stress concentration and extended over the width of the disc despite the absence of any clear influence of stress concentrations on the disc performance. numbers of cycles to disc failure was considerably greater than that at which cracks were observed to form so that the materials are plastic and cracked discs can operate safely for a time. Samples taken from the disc rims after testing were of the same mechanical properties as the initial materials. Attempts were Card 2/3

S/096/62/900/005/003/009
An investigation of the strength ... E194/E454

made to estimate disc life under rapid starting conditions by means of L.F.Coffin's formulae but they were unsuccessful. Calculated in accordance with Coffin, number of cycles to failure was much greater than the experimental number. However, the tests confirmed that the discs can operate safely under starting conditions which do not cause repeated plastic deformation of varying sign anywhere in the disc. There are 6 figures and 6 tables.

ASSCCIATION: TsNIITMASh - zavod "Ekonomayzer" (TsNIITMASh - "Ekonomayzer" Works)

Card 3/3

X

GETSOV, L.B.; ZHUKOV, N.P.

Heat-resistant foundry alloys. Lit.proixv. no.ll:9-11 N '62.
(MIRA 15:12)
(Heat-resistant alloys) (Foundries—Equipment and supplies)

S/032/62/028/011/011/015 'B104/B102

AUTHOR:

Getsov, L. B. ...

TITLE:

Estimation of notch-sensitivity in fatigue tests

PERIODICAL:

Zavodskaya laboratoriya, v. 28, no. 11, 1962, 1368 - 1372

TEXT: A suggested method of estimating the sensitivity of a material to stress concentrators in fatigue tests is that of comparing the equivalent stresses in smooth specimens with those in specimens which have annular grooves. The equivalent stress in a specimen with an annular groove may be taken to be either the stress on the surface or the stress in a zone situated at a certain distance below the surface, averaged over the whole period of the test and therefore taking account of time variations in the stress concentration:

 $\sigma_{s,n}^{(1)} = \left[ \frac{1}{t_p} \int_{0}^{t_p} \sigma^m(t, R = \text{const}) \, dt \right]^{1/m}; \tag{1)}.$ 

Alternatively the equivalent stress may be taken to be the stress averaged toth over the testing period t and over the radius of the specimen Card 1/3

S/032/62/028/011/011/015 B104/B102

Estimation of notch-sensitivity...

$$\sigma_{1,m}^{(2)} = \left[\frac{1}{I_p R_0} \int_{0}^{I_p R_0} \int_{R_1}^{m} dt \, dt \, dR\right] , \qquad (2).$$

Which of these two averagings to adopt needs to be decided by the formation and development of cracks in the material at a certain temperature. To calculate the equivalent stress of of a smooth specimen, the variation of the cross-section contraction during the test is described by

$$y = a - a^2 + a^3 - a^4$$
, where

$$a = \psi_{\mathrm{in}} + (\psi_{\mathrm{p}} - \psi_{\mathrm{in}}) \left( \frac{f - t_{\mathrm{in}}}{t_{\mathrm{p}} - t_{\mathrm{in}}} \right)^{n}.$$

and

the time until the occurrence of contraction, the time until fracture,  $\gamma_p$  the cross-section reduction of the specimen far from the contraction,  $\gamma_p$  the relative contraction, and n a constant. At low temperatures,  $\gamma_p$  is greater than  $\sigma_{\beta, \gamma, \gamma}$ , and the plastic properties have low values. At medium temperatures, the two equivalent stresses are approximately equal, whereas  $\sigma_{\beta, \gamma} < \sigma_{\beta, \gamma, \gamma}$  is observed at high temperatures only. In the former case the material is sensitive to grooves; in the two Card 2/3

Estimation of notch-sensitivity ...

S/032/62/028/011/011/015 ··· B104/B102

other cases it is not. Finally the dependence of the notch-sensitivity on the test period, its temperature dependence, exceptions due to the occurrence of minimum deformation qualities in a certain temperature range, and how the conditions under which the specimens have been produced may affect the sensitivity are discussed. There are 3 figures.

ASSOCIATION: Mashinostroitel'nyy zavod "Ekonomayzer" ("Ekonomayzer" Kachine Building Plant)

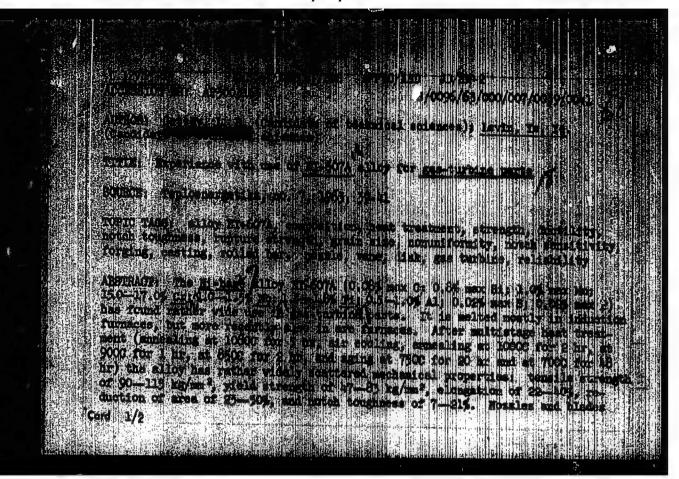
'Card 3/3

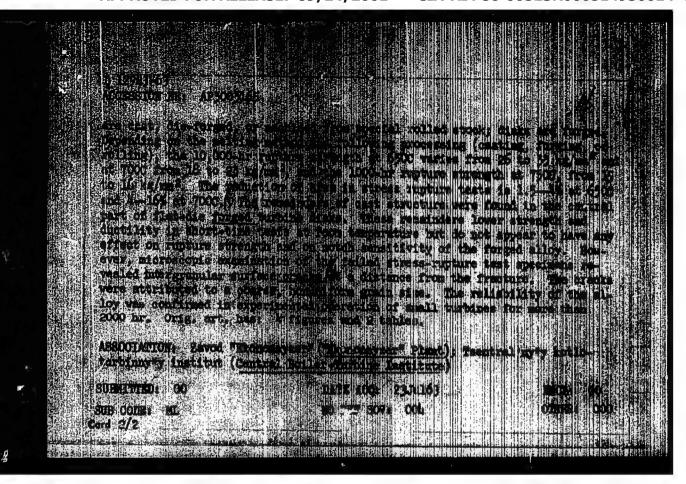
GETSOV, L.B., kand. tekhn. nauk; TAUBINA, M.G., kand. tekhn. nauk

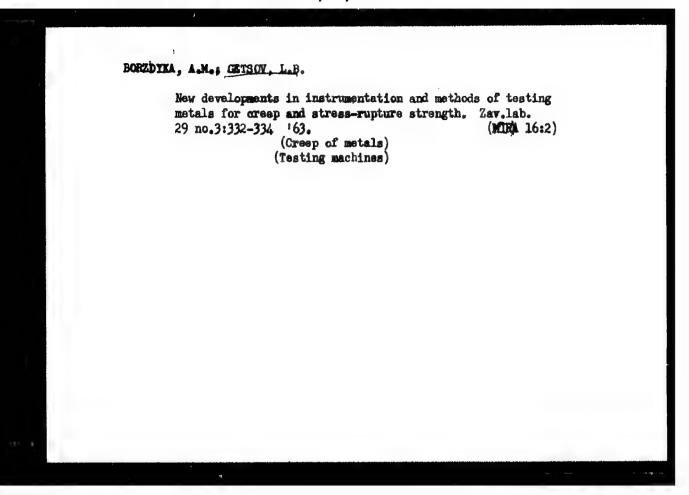
Materials for heavily loaded disks of gas turbines.

Energomashinostroenie 9 no.7:22-26 Jl 163. (MIRA 16:7)

(Gas-turbine disks)







On the parameter m of tension curves, Zav.lab. 25 no.2:988-990 163. (MEA 16:9)

1. Zavod \*Ekonomayzer.\* (Hetals—Testing)

GETSOV, L.B.

Testing for relaxation at high temperatures. Zav.lab. 29 no.11:
1352-1354 '63. (MIRA 16:12)

1. Zavod "Ekonomayzer".

ACCESSION NR: AT4002340

\$/3036/63/000/000/0239/0247

AUTHOR: Getsov, L. B. (Leningrad)

TITLE: To the problem of gas turbine part strength under conditions of repeated temperature changes

SOURCE: Voprosy\* vy\*sokotemperaturnov prochnosti v mashinostroyenii. Vtoroye nauchnotekhnicheskoye soveshchaniye, 1962. Trudy\*. Kiev, 1963, 239-247

TOPIC TAGS: gas turbine part thermal fatigue, gas turbine blade thermal fatigue, gas turbine disk thermal fatigue, E1607 alloy thermal fatigue, E1787 alloy thermal fatigue. E1481 steel thermal fatigue, E1612 steel thermal fatigue, gas turbine blade safety margin, gas turbine disk safety margin, gas turbine part, gas turbine disk, E1607 alloy, E1787 alloy, E1481 steel, E1612 steel gas turbine blade, safety margin

ABSTRACT: Hollow blades and disks of a 600 kw gas turbine, manufactured by the "Ekonomayzer" plant, were tested for efficiency when exposed to the repeated temperature variations which occur during the 1500 to 3000 rapid starts of the turbine during its life (from 0 to 12000 rpm in 85 seconds, maximum temperature # 800 C). The turbine is of two-stage design; the first stage blades can expand freely, while the blades of the second stage are assembled in a ring. Alloy E1607A Card

ACCESSION NR: AT4002340

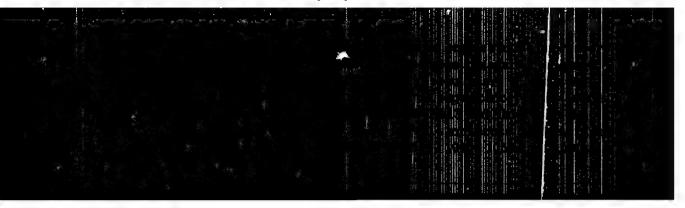
(cast or forged) was selected for the blades of the first stage, while the blades for the second stage were made either of the same material or steel E1787L (see Table I in the Enclosure). The results indicate that formation of flaws is attributable to a lack of clearance between turbine blade and ring. Disk tests used specimens made of steels E1471 or E1612. The tests covered several operational variants (see Fig. I in the Enclosure). The ratio

$$\sigma_{R_{\max}} - \sigma_{R_{\min}} > \sigma_{y \, t_1} + \sigma_{y \, t_2}, \tag{1}$$

where  $O_{R_{max}}$  and  $O_{Rmin}$  are the maximal and minimal overall elastic stresses during a cycle, while  $O_{yt1}$  and  $O_{yt2}$  are elasticity thresholds at temperatures t<sub>1</sub> and t<sub>2</sub> (corresponding to  $O_{Rmax}$  and  $O_{Rmin}$ ), did not apply to any disk segments in variants i (772 cycles) or II (50 cycles). It did apply to the disk rim in variant III, where flaws were noted after 40 cycles for El612 and after 75 cycles for El481 (see Fig. 2 in the Enclosure). Orig. art. has: 2 tables, 3 graphs, 5 illustra-

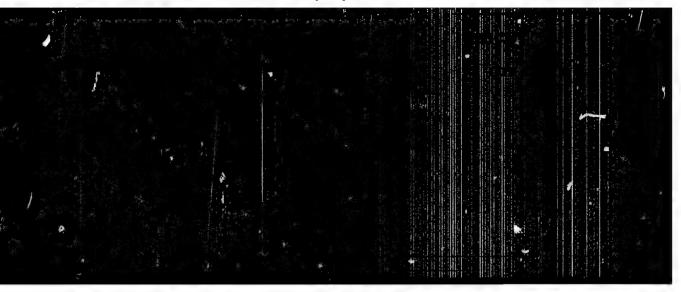
Card 2/13











ACCESSION NR: APh025423

5/0096/64/000/004/0045/0049

AUTHORS: Getsov. L. B. (Candidate of technical sciences); Tret'yachenko, G. N. (Candidate of technical sciences); Kuriat, R. I. (Engineer)

! TITLE: Structural strength of vanes on gas turbines

SOURCE: Teploenergetika, no. 4, 1964, 45-49

TOPIC TAGS: vane, turbine vane, gas turbine vane, metal strength, vane stiffness, vane heat resistance, steel EI 765, steel EI 827, steel EI 607 AL, steel EI 787L, steel EI 765L  $(L.\ 1)$ 

ABSTRACT: This investigation was undertaken because of the formation of cracks on turbine vanes forged of steel EI-607A. The experimental vanes were forged of steels EI-765 and EI-827 and cast of steels EI-607AL, EI-787L, and EI-765L/L. 17. The chemical composition (in %) of these metals is: for EI-765, C--0.12, Cr--14.75, Ni--trace, Ti--1.22, Al--1.84, W--4.94, No--3.96; EI-827 is a highly heat-resistant nickel steel; for EI-607AL, C--0.02, Cr--15.37, Ni--trace, Ti--1.63, Nb--1.10, Al--0.51; for EI-787L, C--0.04, Cr--14.5, Ni--34.16, fi--2.73, Al--1.00, W--3.03; for EI-765L, C--0.10, Cr--14.29, Ni--trace, Ti--1.44, Al--1.63, W-4.60,

Card 1/43

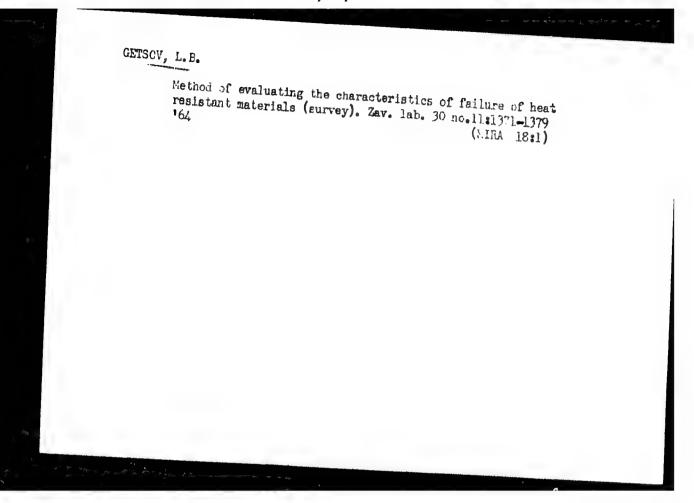
ACCESSION NR: API,0251,23

Ho-3.80. The yanes made of the first three steels were solid, those made of the last two were hollow. Their shapes and the location of thermocouples are shown in Fig. 1 on the Enclosure. The cast vanes (containing a small number of fine holes due to the presence of Ti and Al) were tested in the temperature cycles of 70-9000 and 70-10000, while the hollow ones were tested at 70-8000 and 70-9000. The number of test cycles ranged up to 1000, with each lasting 2.25-4.20 min. Cooling air was delivered at the rate of 0.0075 kg/sec per blade and hot gas at the rate of <0.25 kg/sec per jet . at an entry velocity of < 100 m/sec. The number of thermal cycles sustained by each blade prior to the formation of cracks was recorded and the growth of the first crack (in the solid vanes) was observed. Both the cooled and the uncooled hollow vanes were studied. In all cases the majority of cracks formed at the outflow edges of the vanes. Though the number of experiments conducted was too small to form final conclusions, the preliminary observations indicate that: 1) steel EI -787L should be used in hollow guide vanes and EI-607A in solid ones for temperatures below 800C; 2) steel EI-827 may be used in vanes at temperatures up to 10000 on turbines requiring a limited number of starts (the long-term qualities of this steel should be checked further); 3) cooled vanes of steel EI-787L and EI-765L may be employed up to the temperature of 12000, provided that the number of fast starts is limited; Is) hollow cast vanes should be

Card 2/4 3

Card 3/4 3

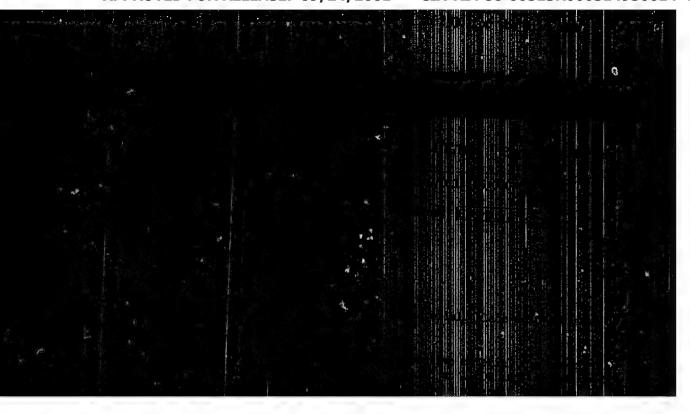




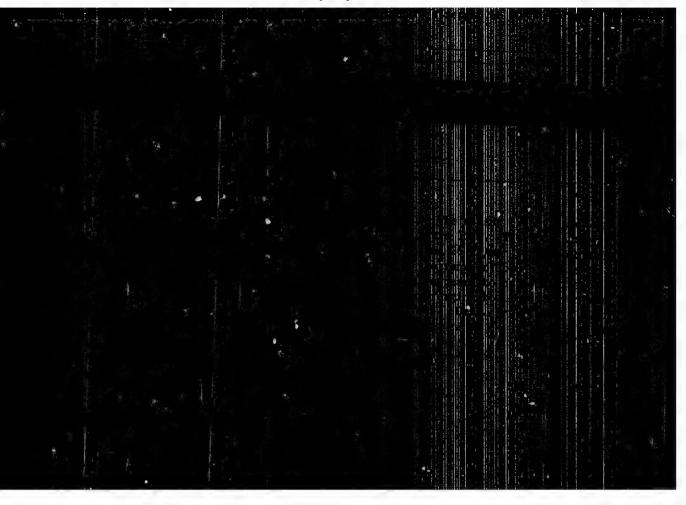
APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514930014-4"



"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514930014-4

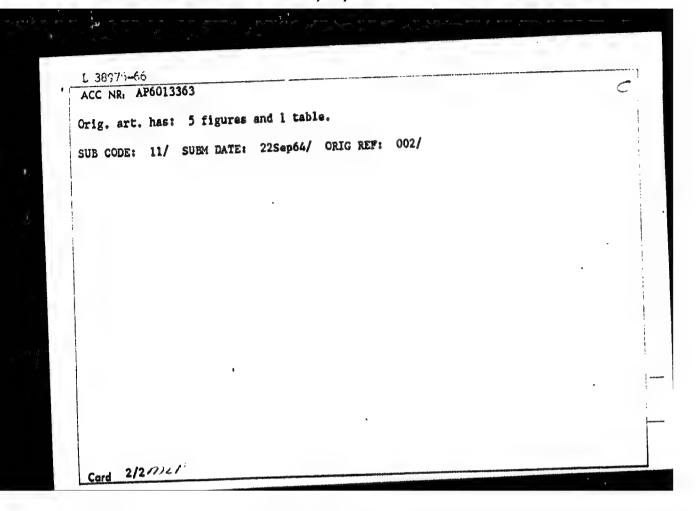


"APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514930014-4



APPROVED FOR RELEASE: 09/24/2001 CIA-RDP86-00513R000514930014-4"

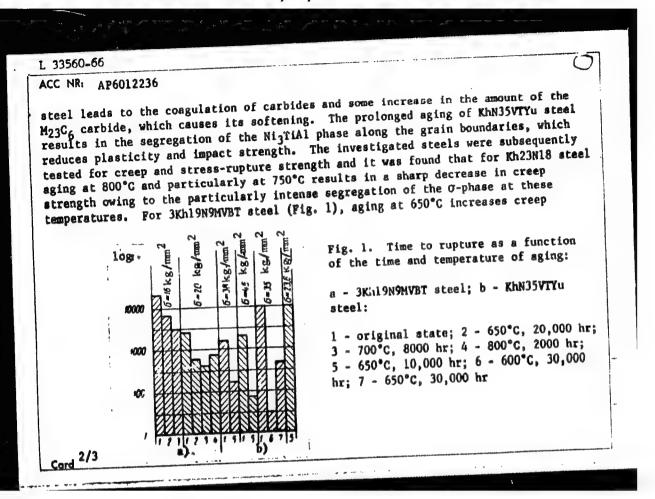
L 38975-66 EWT(m)/EWP(w)/T/EWP(t)/ETI IJP(c) JD/HW ACC NR AP6013363 SOURCE CODE: UR/0370/66/000/002/0110/0115 AUTHOR: Getsov, L. B. (Leningrad) Ŀ ORG: none TITLE: Short-duration creep and relaxation of certain heat resistant alloys SOURCE: AN SSSR. Izvestiya. Metally, no. 2, 1966, 110-115 TOPIC TAGS: ferritic steel, martensitic steel, austenitic steel, pearlitic steel, metal property, heat resistant steel ABSTRACT: The object of the work was to obtain the characteristics of stress-rupture strength, creep, and relaxation resistance for the following types of steel most commonly employed in gas turbine construction: pearlific - 20Kh3MVF (EI415), ferritic-martensitic - 1Kh12VMMF (EI802), austenitic - KhN35VT (EI612), and a nickelbase alloy, KhN8OTBYuA (EI607A). The following curves were plotted: atress-rupture strength and creep resistance; instantaneous rate of creep versus accumulated creep strain; deformation curves; short-duration relaxation; and short-duration relaxation under repeated loads. Hardening during short-duration relaxation indicates that the exhaustion of the plasticity resource of the material under repeated load conditions may take place later than indicated by experiments with single loading. Engineers El'yasheva, R. A., and Lokalova, N. S., participated in the experimental part. Card 1/2 UDC: 539.376

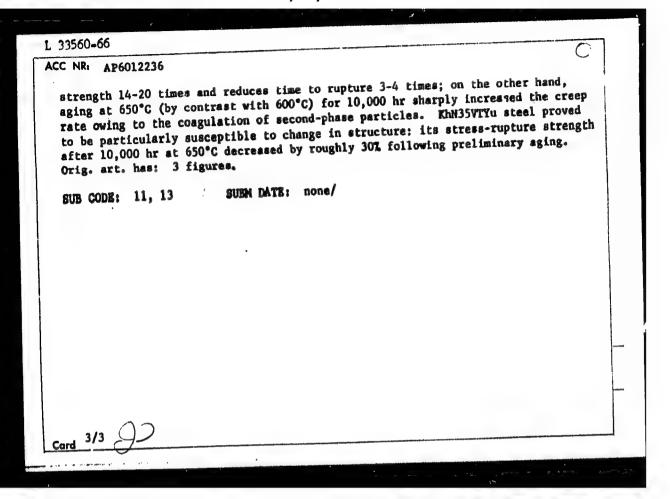


# "APPROVED FOR RELEASE: 09/24/2001

# CIA-RDP86-00513R000514930014-4

33560-66 FWT(m)/EWP(w)/T/EWP(t)/ETI TJP(c) JD  CC NR: AP6012236 SOURCE CODE: UR/0129/66/000/004/0068/0069
CC NR: AP6012236 SOURCE CODE: UR/0124/00/000/000/
ORG: none  PITLE: Effect of structure on the creep strength of high-temperature alloys  SOURCE: Metallovedeniye i termicheskaya obrabotka metallov, no 4, 1966, pp 68-69  TOPIC TAGS: steel, metal aging, creep, structure, temperature dependence/ /3Wh19N9MVBT (EI572) steel, 4Kh12N8G8MFV (EI481) steel, KhN35VTYu (EI417) steel, /15TRACT: The article deals with the effect of structural changes in hardened /15TRACT: The article deals with the effect of structural changes in hardened /15TRACT: The article deals with the effect of structural changes in hardened /15TRACT: The article deals with the effect of structural changes in hardened /15TRACT: The article deals with the effect of structural changes in hardened
hardened kh23N18 (E1787) steel; these steels are used as the matter. The changes in structure were accomplished by prolonged (up to 30,000 hr) elements. The changes in structure were accomplished by prolonged (up to 30,000 hr)
exposure to operating temperatures (up to the
longed aging the decrease in the impact strength of kn23h10 steel the M23C6 phase segregation of the G-phase. In 3kh19N9MVBT steel the amount of the M23C6 phase segregation of the G-phase. The sging of 4kh12N8G8MFB increases more intensively than that of the G-phase.
UDC: 669.14.018:45:620.178.38
Card 1/3 UDC: 669.14.018:45:620.178.36





WW/BC/QD EWT(d)/EWT(1)/T-2/EWP(1) IJP(c) SOURCE CODE: UR/0000/65/000/000/0296/0308 L 46025-66 ACC NR: AT6017619 AUTHOR: Belkin, Yu. S.; Bodner, V. A.; Getsov, L. N.; Mart'yanova, T. S.; Ryazanov, Yu. A. Pi+1 ORG: none TITLE: Adaptive systems for the optimization work regimes and transient processes in a turbojet engine SOURCE: Vsesoyuznaya konferentsiya po teorii i praktike samonastraivayushchikhsya sistem. 1st, 1963. Samonastraivayushchiyesya sistemy (Adaptive control systems); trudy konferentsii. Moscow, Izd-vo Nauka, 1965, 296-308 TOPIC TAGS: optimal automatic control, turbojet engine, thrust optimization, SELF ADAPTIVE CONTROL ABSTRACT: Synthesis and analysis of an adaptive system to optimize and control various parameters of a turbojet engine is presented. The equations of the system are written out in detail and numerical data are tabulated. The analysis was performed using analog simulation and the graphical results are presented. The control parameters considered were the rpm of the turbo-compressor, the inlet and afterburner temperatures and the turbine pressure gradient. The control inputs considered were the main fuel consumption, the afterburner fuel consumption, and the nozzle cross section. Owig art. has: 16 formulas, 7 figures, 1 table. SUBM DATE: 22Nov65 SUB CODE: 12,13,21/ Card 1/1 AA .

S/682/62/000/004/005/006 D234/D308

26.2190

AUTHORS:

Getsov, L.N. and Mart'yanova, T.S.

TITIE:

Investigating the dynamics of control of a turbopropeller engine with a restrainer of negative

traction

SOURCE:

Avtomaticheskoye regulirovaniye aviadvigateley;

sbornik statey, no. 4, Moscow, 1962, 103-118

That:

The authors give the results of a theoretical investigation. Conditions under which the restrainer operates are stated. Equations for the engine as an object of control, for the astatic regulator of the number of revolutions and for the restrainer are given. It is stated that the case n = const, where the restrainer acts together with the regulator of n, is the most interesting. The stability of the control system is analyzed. For transition regimes, the system was investigated on a modelling installation; results are given. It is concluded that for securing stable control of traction with admissible transition processes, the hysteresis in

Card 1/2

S/682/62/000/004/005/006 D254/D308

Investigating the dynamics ...

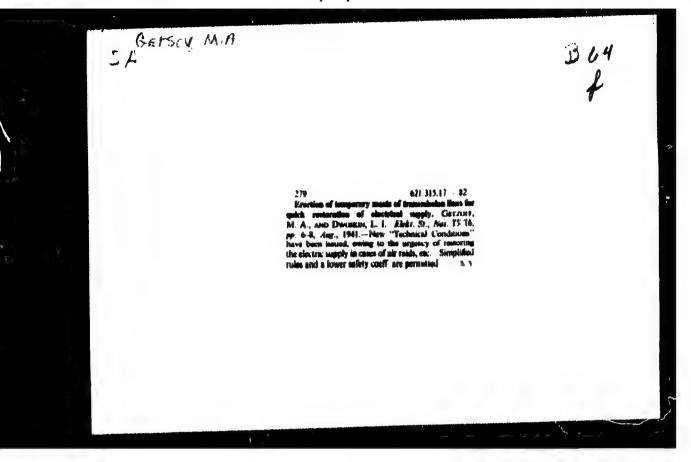
the traction meter should not exceed  $\pm$  0.5% and the time constant of the servomotor must be < 0.2  $\pm$  0.3 sec. There are 15 figures and 1 table.

Card 2/2

Investigating the dynamics of automatic control of a turboprop engine having a limiter of the regative thrust. Avtom.reg.

aviadvig. no.4:103-118 '62. (MIRA 15:11)

(Airplanes—Turbine-propeller engines)



SHABUROV, Solomon Ivanovich, O.ISOV, M.A., red.; MATVEYEV, G.I., tekhn.red.

[Special aspects of planning electric transmission lines in mountain regions] Spetsial'nye voprosy proektirovaniia gornykh linii elektroperedachi. Moskva, Gos.energ.izd-vo. 1959. 111 p. (Electric lines--Overhead)

GETSOVA, A.B., LOEINA-LOEINSKIY, L.K.

Role of insect behavior in the process of adaptation to plant food. Zool.shur. 34 no.5:1066-1079 S=0 155. (MLRA 9:1)

1.Yestestvenno-nauchnyy institut imeni P.F.Lesgafta. (Phytophaga)

GETSOYA A.B

USSR/General and Specialized Zoology - Insects.

P.

Abs Jour

: Ref Zhur - Biol., No 8, 1958, 35188

Author

Getsova, A.B., Lozina-Lozinskiy, L.K.

Inst

: The P.F. Lesgaft Institute of Natural Sciences.

Title

: To the Problem of Conditioned Reflexes in Insects and

Methods of Their Study.

Orig Pub

: Izv. Estestv.-nauchn. in-ta im. P.F. Lesgafta, 1957, 192-

198.

Abstract

: In the production of conditioned reflexes to colors in the domestic fly Musca domestica, the visits by the flies to a color stimulus (a circle of paper with or without food in the control circle) were automatically registered: sitting on the circle the fly colsed an electric chain of special design connected with a kymograph. The domestic

fly distinguished colors by spectral composition,

Card 1/2

USSR / General and Specialized Zoology. Insects. Physiology and Toxicology.

P

Abs Jour

: Ref Zhur - Biologiya, No 16, 1958, No. 73570

Author

Getacva, A. B.

Inst

: Academy of Pedagogic Sciences RSFSR

Title

: The Role of Some Sense Organs (Hemoreceptors) in the

Behavior of Insects

Orig Pub

: Izv. Akad. pod. nauk RSFSR, 1957 (1958), vyp. 85, 259-

269

Abstract

: No abstract given

Card 1/1

AUTHORS:

1 30.

Getsova, A. B., Lapinskaya, Ye. M., Khenokh, M. A. 20-1-22/58

TITLE:

The Development of Eggs in Antheraea Pernyi Under the Influence of Ultrasonic Treatment (Vliyaniye ul'trazvuka na razvitiye yaits dubovogo shelkopryada).

PERIODICAL:

Doklady AN SSSR 1958, Vol. 118, Nr 1, pp. 78-79 (USSR)

ABSTRACT:

According to the references in literature ultrasonic oscillations can influence the development of the seeds of various plants as well as stimulate the development of various animals. In this connection the authors tried to determine if ultrasound can be used for the acceleration of the development of the eggs of antheraea pernyi, which would be of practical importance. The sound treatment was carried out at various stages of development of the embryo and the duration of exposure to this treatment was also different. As experimental material served the eggs of antheraea pernyi of the first generation of spring 1956. The eggs were exposed to sound treatment in a test glass with destilled water at temperatures of from 13 - 15°. Also the treatment of the control eggs is described. From the time of hatching as well as from the number of surviving caterpillars the influence of the ultrasonic oscillations on the velocity of development as well as on the rate of surviving

Card 1/3

The Development of Eggs in Antheraea Pernyi Under the Influence 20-1-22/58 of Ultrasonic Treatment.

embryos was determined. The ultrasonic oscillations were produced by means of an ultrasound generator (300 - 400 Watt, 125 kc). The influence of the duration of exposure on the velocity of development of embryos is mentioned in a table. Especially in the begin of the development (on the first day) the ultrasonic oscillations have a stimulating effect. Most stimulating is a from 2 - 3 minutes lasting exposure. The exposure at the begin of the development shortens the fortnightlong development of embryos by 3 days, i. e. 21 %. With an exposure of 60 and 90 minutes the stimulating effect of ultrasound decreases to 8,3 %. Also during the development of the embryonal band ultrasound has a stimulating effect. But an exposure carried out during blastokinesis leads to the death of the embryo. An exposure of the eggs of from 1 - 30 minutes has the most stimulating effect. Therefore ultrasonic oscillations can accelerate the development of the eggs of the antheraea pernyi. There are 16 references, 11 of which are Slavic.

Card 2/3

CETSOVA, Anna B.

"Description of Radioactive Matters in some Aquatic Invertegrates."

report presented at the Intl. Congress of Entomology, Vienna, Austria, 17-25 August 1960.

Zoological Inst, Leningrad.

\$/020/60/132/05/60/069 B011/B002

AUTHORS: Timofeyev-Resovskiy, N. V., Timofeyeva-Resovskaya, Ye. A.,

Milyutina, G. A., Getsova, A. B.

TITLE: Coefficients of the Accumulation of Radioisotopes of

Sixteen Different Elements by Fresh Water Organisms and

the Influence of Complexon EDTA on Some of Them

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol. 132, No. 5,

pp. 1191-1194

TEXT: The accumulation coefficient (AC) of radioisotopes can be easily determined by means of tagged atoms. By AC one understands the ratio between the concentration of the respective isotope in an organism and its concentration in water. Data concerning sixteen isotopes as well as nineteen plant— and seventeen animal species are compiled in the present paper. Moreover, experimental results are specified concerning the influence of EDTA (ethylene diamine tetraacetate or Trilon B) upon AC. The authors studied the accumulation coefficients of the isotopes of P, S, Ca, Fe, Co, Zn, Ge, Rb, Sr, T, Zr, Nb, Ru, I, Cs, and Ce. Special

Card 1/4

Coefficients of the Accumulation of Radioisotopes of Sixteen Different Elements by Fresh Water Organisms and the Influence of Complexon EDTA on Some of Them B/020/60/132/05/60/069 B011/B002

experiments revealed that AC, in the case of a micro-concentration of isotopes, is not greatly dependent on their concentration in water. Previous experiments conducted by the authors (Ref. 10) indicated that AC was rather quickly stabilized. Experiments were made in aquariums at room temperature. Fig. 1 offers a survey of AC in the case of plants and animals. It results therefrom that AC of plants are higher than those of animals with respect to all elements mentioned (except P and Sr). Furthermore, the elements form two groups: such with high (some thousands) and such with low AC. To the former belong: P, Fe, Co, Zn, Y, Zr, Nb, and Ce, to the latter all the rest, especially S, Ge, I, and Cs. With plants, the following yield especially high AC: Fe, Zn, Y, Nb, and Ce, with animals: Co, Zn, Y, Nb, and Ce. Table 1 offers numerical values of AC cross sections. It follows therefrom that in plants this value is about four times, for Sr<sup>90</sup>, Y<sup>91</sup>, Zr<sup>95</sup>, Ru<sup>106</sup>, Cs<sup>137</sup>, and Ce<sup>144</sup> somewhat higher than in animals. The authors offer experimental results on the EDTA influence on AC of fifteen isotopes in seven plant- and five animal species (Fig. 2). It may be seen therefrom that in the presence of EDTA,

Card 2/4

V

Coefficients of the Accumulation of Radioisotopes of Sixteen Different Elements by Fresh Water Organisms and the Influence of Complexon EDTA on Some of Them 8/020/60/132/05/60/069 B011/B002

the accumulation coefficients of Fe, Co, Zn, Y, and Ce drop markedly (by the 10-100fold). The accumulation coefficients of Ca, Zr, Nb, Ru, and I are somewhat reduced, those of Rb, Sr, and Cs are increased, and those of all other elements are practically left almost unchanged by EDTA. The authors explain the action mechanism of EDTA in individual elements by differently high stability constants of their complex compounds with EDTA. The S, Ge, and I, which are not influenced by EDTA, probably do not form any compounds with the latter. The reduction of the accumulation coefficients of Zr, Nb, and Ru as well as the incluses of those of Rb and Cs are not explained by direct EDTA action, but by a disturbance of the Ca reaction under the influence of EDTA. The most dangerous are Sr- and Cs isotopes as components of contaminated water. Possibly, the addition of Trilon B to contamined water may promote the biological purification from isotopes. The authors made experiments in this respect. Papers by V. I. Vernadskiy (Ref. 8) and A. P. Vinogradov (Ref. 9) are mentioned. There are 2 figures, 1 table, and 16 Soviet references.

Card 3/4

Coefficients of the Accumulation of Radioisotopes of Sixteen Different Elements by Fresh Water Organisms and the Influence of Complexon EDTA on Some of Them \$/020/60/132/05/60/069 B011/B002

ASSOCIATION: Otdel biofiziki i radiobiologii Biologicheskogo instituta
Ural'skogo filiala Akademii nauk SSSR (Department of
Biophysics and Radiobiology of the Biological Institute of
the Ural Branch of the Academy of Sciences, USSR).
Zoologicheskiy institut Akademii nauk SSSR (Zoological
Institute of the Academy of Sciences, USSR)

PRESENTED: February 6, 1960, by Ye. N. Pavlovskiy, Academician

SUBMITTED: January 11, 1960

V

Card 4/4

#### GHTSOVA, A.B.

Desorption of radioisotopes from some aquatic invertebrates.

Dokl.AN SSSR 13) no.2:459-461 J1 160. (MIRA 13:7)

1. Zoologicheskiy institut Akademii nauk SSSR. Predstavleno akademikom Ye. N. Pavlovskim.

(FRESH-WATER FAUNA) (RADIOACTIVE SUBSTANCES)

(ACETIC ACID)